

## INTERNATIONAL SEARCH REPORT

PCT/JP2005/000820

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 B60K6/04 F16H61/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B60K F16H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/47931 A (ROBERT BOSCH GMBH; TUMBACK, STEFAN; SCHNELLE, KLAUS-PETER) 20 June 2002 (2002-06-20) claim 4	1-13, 15-21
Y		14
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 230442 A (TOYOTA MOTOR CORP), 22 August 2000 (2000-08-22) cited in the application abstract	14
A		1
A	EP 1 336 773 A (AISIN AW CO., LTD) 20 August 2003 (2003-08-20) claims 1,2,5	1-21
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

21 April 2005

Date of mailing of the international search report

04/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Tamme, H-M

## INTERNATIONAL SEARCH REPORT

PCT/JP2005/000820

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/171187 A1 (AOKI TAKASHI ET AL) 11 September 2003 (2003-09-11) claim 4 -----	1-21
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 21, 3 August 2001 (2001-08-03) & JP 2001 112114 A (TOYOTA MOTOR CORP), 20 April 2001 (2001-04-20) cited in the application abstract -----	1-21
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19, 5 June 2001 (2001-06-05) & JP 2001 041067 A (NISSAN MOTOR CO LTD), 13 February 2001 (2001-02-13) cited in the application abstract -----	1-21
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 12, 12 December 2002 (2002-12-12) & JP 2002 225578 A (TOYOTA MOTOR CORP), 14 August 2002 (2002-08-14) cited in the application abstract -----	1-21
A	US 6 390 947 B1 (AOKI TAKASHI ET AL) 21 May 2002 (2002-05-21) claim 5 -----	1-21

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/JP2005/000820

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0247931	A	20-06-2002	DE 10062556 A1 WO 0247931 A1 EP 1409282 A1 JP 2004514863 T US 2003178953 A1	04-07-2002 20-06-2002 21-04-2004 20-05-2004 25-09-2003
JP 2000230442	A	22-08-2000	NONE	
EP 1336773	A	20-08-2003	JP 2003240110 A EP 1336773 A2 US 2003171867 A1	27-08-2003 20-08-2003 11-09-2003
US 2003171187	A1	11-09-2003	JP 2003262264 A DE 10309846 A1	19-09-2003 13-11-2003
JP 2001112114	A	20-04-2001	DE 10049567 A1 FR 2799417 A1 US 6549840 B1	31-10-2001 13-04-2001 15-04-2003
JP 2001041067	A	13-02-2001	NONE	
JP 2002225578	A	14-08-2002	JP 3580257 B2	20-10-2004
US 6390947	B1	21-05-2002	JP 2001099282 A	10-04-2001